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-WODEL-frame+_P2n.model -DEV=xlh
-Q-/egn2_1/USPTO_spool/USO9807459/runat_18102002_141111_28571/app_guery.fasta_1.647
-Q-/egn2_1/USPTO_spool/USO9807459/runat_18102002_141111_28571/app_guery.fasta_1.647
-DB=N_Geneseq_032802 -OFMT=fastap -SUFFIX=rng -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -WATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=40
-MODE=LOCAL -OUTFWT=pco -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-MODE=LOCAL -OUTFWT=pc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=-USO9807459_eCGN_11_48_erunat_18102002_141111_28571 -NCPU=6 -TCPU=3
-NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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Maximum Match 100%
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2: /SIDS1/gcgdata/hold-geneseq/geneseqn-emb1/NA1981.DAT:*
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Copyright (c) 1993 - 2002 Compugen Ltd.
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SUMMARIES

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ALIGNMENTS

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	parasitic infection; veterinary; ss.	recombinant production; diagnosis; equine babesiosis;	Merozoite protein; 48 kD rhoptry protein; antigen; antibody;		Babesia caballi merozoite 48 kD rhoptry protein-encoding cDNA.		22-MAY-2001 (first entry)		AAF59961;		AAF59961 standard; cDNA; 1828 BP.	RESULT 1 AAF59961

Babesia caballi. WO200112813-A1

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                                                                                                                                                                                                                                                                                                                                                                                                                                                         relates to phage vectors containing a nucleic acid encoding the merozoite protein, a method for the recombinant production of the protein, an antibody against the protein, and a method for the diagnosis of equine babesiosis from horse blood samples by using the antibody to detect Babesia caballi merozoites, or by using the 48 kD protein as an antigen to detect anti-Babesia caballi antibodies. The 48 kD merozoite protein, or an antibody specific for the protein may be used for the diagnosis of equine babesiosis caused by Babesia caballi. The present sequence represents cDNA encoding the Babesia caballi merozoite 48 kD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a 48 kD merozoite rhoptry protein from Babesia caballi (AAB60669) and cDNA encoding it (AAF59961). The invention also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gene encoding merozoite protein of Babesia equine babesiosis caused by this organism
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Query Match:
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                                                                                                                                                                                                                                                                                                                                                                                                          Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         part of the repeated region of 2184/rhoptry antigen. In hybridisation assays this primer recognised two tandemly repeated regions suggesting that B. bovis contains two copies of the 2184/rhoptry antigen gene. The two proteins encoded by the two antigen genes are identical. Primers 2184.2 and 2184,3 flank the 2184-309 coding region of the antigen gene. Primer 2184.4 primes synthesis just 3 to the end of the open reading frame. The entire open reading frame was shown to encode five antigen genes. The 3' non-repetitive sequences of open reading frames 1-4 are identical. Gene 5 shows sequence divergence throughout most of the open reading frame. Babesia antigen genes can be used in the production of a combined vaccine which will stimulate agreater immune response and afford broader immunity than a single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This sequence is a gene which is representative of the Babesia bovis 21B4/rhoptry antigen gene region. This sequence was isolated by PCR using the primers given in AAQ47068-72. Primer 21B4.1 corresponds to part of the repeated region of 21B4/rhoptry antigen. In hybridisation paraways this primer recognised two tandemly repeated regions suggesting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1542 BP; 455 A; 366 C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 22; Fig 5; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting closely linked gene copies which encode protective antigen against babesiosis - by screening babesial genomic DNA library with oligo-nucleotide probe based partial sequencing of protective antigen and identifying positive clones
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Dalrymple BP,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antigen vaccine.
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271 CAAATGGTTGCCCTCTATGCTGACCGTTGTGAGATGTACGGTTGTTTGCAGATTGACAAC
                              61 AlaSerValSerAlaTyrMetSerArgCysAlaLysGlnAspCysLeuThrLeuGlnSer
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                                                                                                                                                                                                                                      1 MetAlaProSerAspSerValGlyAspValThrLysThrLeuLeuAlaAlaSerGluSer :::|||||||::::: | |||||::::||| ||||||
                                                                                                                                           ValAspSerAlaAlaAsnAlaTyrMetIleAsnSerAspMetSerAspTyrLeuSerAla
                                                                                                       ValSerAspAsnPheAlaGluArgIleCysSerGlnValProLysGlySerAsnCysSer
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8 ArgaspProSerLysalaLeuIleArgLysValSerThrGluAla 452	P AAGGACTTCTTCGAGAACAAGCTGCCTGAACACACCAAGGACTTCTTTGAGAACA	8 AspAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPheIleAsnLys	GAGAACAAGCTGCCTGAACGCACCAAGGACTTCTTCGAGAACAA	9 AsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysValTyrThrGluAla 417	9 SerThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPheIle 398	9 ThrValAspPheI 2 ACCAAGGACTTCT	2 TTCGAGAACAAGATAGGTGCTCCTACCAAGGACTTCTTCGAGAACAAGATAGGTGCTCCT 11	0 LysGluLysValSerAsnAspAlaLysAspLeuPheGluAsnLysIleGlyGlnGly 358		0 IleGlyGlnGlyThrValAspPhePheAsnLysGluIleArgAspProSer	2 CGCACCGCGAATTTTTCGACAAGATGCATGAACGCACCAAGGACTTCTTCGAGAACAAG 1	<pre>1 SerLysAlaLeuLysGluLysValS</pre>	8 TTTGTTAACAAAATAGGCAAACCTACAAAGGAACACTTCCACAAGAAACACCCA 9	1 MetValAsnArgValPheIleProThrLysLysPhePheAsnLysGluIleArgGlu		1 ValAlaGlyTyrValAspThrProTrpTyrLysLysTrpTyrMetLysLeuLysAsr	1 AlaLeuProLysPheAlaLysArgPheSerLeuMetValValGlnArgLeuLeuAlaThr 260	8 ATTGAACGCATTAGTCATTTGGCCCACGGTTACAAGGACTACATGTTGACCCCAAGTTC	<pre>1 ValSerArgLeuGlnHisIleThrSerSerTyrLysAspTyrMetAspThrGlnIlePro 240</pre>	1 AAGGCGCTCAAGGATATCGTCCGCTCCAATGTTCCCGAATATATGGGAGAGCACAGT	l ArgAlaLeuLvsGlnTleTleArgSerAsnLeuProLeuAsnTleGlvThrGluHisSer 2		1 GlyAlaSerPhePheAsnLysLeuSerPheThrThrGlyLeuPheGlyTrpGlyI	AACAAGCTTTTGTACATGGCCACCACCTATTACAAAACCTACCT	SerArgTvrIeuTvrMetAlaThrLeuTvrTvrIvsThrTvrThrAsnValAspGluPhe 18		1 AsnfeuLeuGluLvsAsnValThrArqAspAlaAspAlaThrAspIleGluAsnF	ArgPheTrpMetArgPheArgArgGlyLysAsnHisSerTyrPheH1sAspLeuValPhe 14	1 GATGCTGCCTTCACTTTGTTCAAGAACTCTGCGTCGAACCCAGCTAAAAATGGTTTAAAA 45	1 GluAlaAlaPheIleLeuPheLysGluSerAspAlaAsnProAlaAsnSerThrGluLys 12	1 GTCAACTACCCCGTTGATGAGGAATACCAACCCTTATCACTCCC	1 Leu

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Alignment
Pred. No.:
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27-MAR-1987;
01-MAR-1991;
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                                                                                                                                                                                                                                                              Antigenic surface proteins (45, 55 and 58 kDa) were isolated f the intraerythrocytic merczolte stage of B. bigemina JG-29. T kDa surface protein (AAR77249) was characterized, and encoding kDa (AAQ90252) was isolated from a lambda GEM11 library.
                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                      Babesia merozoite 45 kD surface protein from B. b. vaccines for the prophylaxis of bovine babesiosis
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342
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GAAATGGAAGCAACTCAGGTCAACAAAGATATGCAAAGTCAATTGTCTAATGTTAAGGAG
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DB; AAR77249.
            AlaAlaAsnAlaTyrMetIleAsnSerAspMetSerAspTyrLeuSerAlaValSerAsp
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87US-0031328.
91US-0663255.
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                                                                                     GlnGlyThrValAspPheIleAsnAsnGluIleArgAsp-----ProSerLysAlaLeu 374
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           ---CAAAAGGGCGACCAACCATCCGAAGCAGCTGTAGAGGAAACCGTTCCGTCTGGC---
                                                                                                                                                                     AGCACCAAGCATATTGCCAAC---GGTGTACGTGATTTGTCAAGGATGATTAAGGAG---
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                                                                                       Alignment
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                                                                                                                                This sequence encodes an immunoreactive epitope located on the surface of babesia bovis merozoites. A. B. bovis cDNA expression library was constructed using poly A(+) RNA isolated from B. bovis infected blood cultures. Plaques were immunoscreened using rabbit anti-Bv60 sera, and positive plaques tested for reactivity with monoclonal antibodies that recognised a Bv42 surface exposed epitope as well as an isotype control monoclonal antibody and normal rabbit serum. Lambda rBv60 phagemid DNA was isolated from bacteria, and
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P-PSDB;
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                                                                                                                                                                                                                                        DNA encoding Babesia bovis protein - is used prodn. of polypeptide(s) for use in vaccines
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                                                                                                                       04-APR-1989;
14-DEC-1992;
21-NOV-1994;
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                  Example 18;
                                New fragment of Babesia bovis detecting Babesia infection
                                                        P-PSDB;
                                                                                        Goff WL,
                                                                                                                                                                                                                                                            Babesiosis;
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                                                                                 Stiller
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                                                                                                                                                                                                                                                                                                            AAT18995;
                                                                                                       (USDA ) US
                                                                                                                                               04-APR-1990;
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                                                                                                                                                                                                                                                                                                                          AAT18995 standard; cDNA;
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DB; AAR97981.
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                                                                                        Jasmer
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                Fig 3; 19pp; English.
                                                                                                                                                                                                                                                           merozoite protein; vaccine;
  (AAT18995)
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89US-0333155.
92US-0989616.
94US-0342480.
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ValAlaGlyTyrValAspThrProTrpTyrLysLysTrpTyrMetLysLeuLysAsnPhe
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Percent Similarity:
Best Local Similarity:
Query Match:
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ACTCTTTCCAAGTTTGCACGTCGTTATGCTGACATGGTGAAGAAGGTTCTGCTCGGTAGC
                            AlaLeuProLysPheAlaLysArgPheSerLeuMetValValGlnArgLeuLeuAlaThr
                                                                                                            ValSerArgLeuGlnHisIleThrSerSerTyrLysAspTyrMetAspThrGlnIlePro
                                                                                                                                                                                 CAAACATTGAGTGATATCATCAGGTGGAATGTTCCTGAAGATTTT---GAAGAAAGGAGC
                                                                                                                                                                                                                         {\tt ArgAlaLeuLysGlnIleIleArgSerAsnLeuProLeuAspIleGlyThrGluHisSer}
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             15-JAN-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       are very similar but gene 2 appears to contain a large number of repeats. Babesia antigen genes can be used in the production of a combined vaccine which will stimulate a greater immune response and afford broader immunity than a single antigen vaccine. See also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        clone B. canis lambda GEM-1 genes which are related to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Detecting closely linked gene copies which encode protective antigen against babesiosis - by screening babesial genomic DN library with oligo-nucleotide probe based partial sequencing protective antigen and identifying positive clones
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequence represents the Babesia canis 2184/rhoptry antigen gene
This sequence was determined from restriction fragments from the
B. canis lambda GEM-11 #9. B. canis was found to contain two
s which are related to the B. bovis 2184 gene. Gene 1 and gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1993-243219/30
DB; AAR39902.
                                                                                                 GCTTTCTGGATGCGTTTTCGTCACGGCGGACGTTATGGCGCCTATCACAATTTCCTGGTG
SerArgTyrLeuTyrMetAlaThrLeuTyrTyrLysThrTyrThrAsnValAspGluPhe
                                                                                                                              ArgPheTrpMetArgPheArgArgGlyLysAsnHisSerTyrPheHisAspLeuValPhe
                                                                                                                                                              GAGGCCGCGTTCTATGTCTTCAGAAACAGTGAATCAAACCCCAATTAAAAAACCCCAACGGAA
                                                                                                                                                                                          GluAlaAlaPheIleLeuPheLysGluSerAspAlaAsnProAlaAsnSerThrGluLys 120
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                                      AATATTCTATATAAAAAACCTCAGCGATAGCATGGTGGATGATAACCTCGAAGGTTTCGTA
                                                          CAGAAGTACCCTCAAGAGAAGGAATACCAGCCGCTGACCCTTCCCAACCCTTATCAATTG
                                                                                                                                                                                                                                                                                       AAGAGCGTAGCTGAGTATGTTGAAAGCTGCGTCAGGTACGACTGCTTTAGCATTGAGAAC
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                                                          Polymerase chain reaction; PCR; amplify; primer; detection; babesiosis; parasite; Babesia bovis; 21B4/rhoptry; antigen;
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DB:
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Best Local Similarity:
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5. This sequence was isolated by PCR using the primers given in

6. AAQ47068-72. Primer 21B4.1 corresponds to part of the repeated

7. region of 21B4/rhoptry antigen. In hybridisation assays this primer

8. recognised two tandemly repeated regions suggesting that B. bovis

9. contains two copies of the 21B4/rhoptry antigen gene. The two

9. proteins encoded by the two antigen genes are identical. Primers

10. 21B4.2 and 21B4.3 flank the 21B4-309 coding region of the antigen

10. gene. Primer 21B4.4 primes synthesis just 3' to the end of the open

10. reading frame. The entire open reading frame was shown to encode five

10. antigen genes. The 3' non-repetitive sequences of open reading frames

11.4 are identical. Gene 5 shows sequence divergence throughout most

10. of the open reading frame. Babesia antigen genes can be used in the

11. production of a combined vaccine which will stimulate a greater immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting closely linked gene copies which encode protective antigen against babesiosis - by screening babesial genomic DNA library with oligo-nucleotide probe based partial sequencing opportective antigen and identifying positive clones
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P-PSDB; AAR39901.
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 GluAlaAlaPheIleLeuPheLysGluSerAspAlaAsnProAlaAsnSerThrGluLys
                                    GTAGCTTACCCTTTGAATCAGGAATATCAGCCACTATTACTTCCGGAACCATACCAATTG
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                                                                                                                         AlaSerValSerAlaTyrMetSerArgCysAlaLysGlnAspCysLeuThrLeuGlnSer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Monoclonal antibody to Babesia bovis parasite - antigens for use in vaccines for treating Babesi providing immunity in cattle
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                                                                            AspSerAlaAlaAsnAlaTyrMetIleAsnSerAspMetSerAspTyrLeuSerAlaVal
                                                    ACTCTCCGTGACCACATGCACAACATTACTAAGGATATGAAACACGTTTTGAGCAATGGT
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RESULT 9
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US-09-807-459-2 (1-458) x AAV21209
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                                                                                                                                                                                                                                                                                                                                                              The present sequence represents the complete 1.66-megabase pair genome sequence of the Methanococcus jannaschii circular chromosome. The present invention describes M. jannaschii open reading frames from the genome sequence. The invention also describes a computer based system for identifying fragments of the M. jannaschii genome that are homologous to target nucleotide sequences, comprising: (a) data storage means comprising the nucleotide sequence of the 1664976, 58407 or 16550 by sequence (see AAV21209, AAV21210 and AAV21211), or a nucleotide sequence at least 99.9% identical to it; (b) search means for comparing target sequence to the nucleotide sequence of the data storage means to dentify a homologous sequence, and (c) retrieval means for obtaining the homologous sequence, and (c) retrieval means for obtaining the homologous sequence. The method, which is based on whole genome of which consists of 3 physically distinct elements, a large circular homologous sequence of the companion of the least sequence of the least seque
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                                                                                                                                                                                                                                                                           chromosome (the 1664976 bp sequence given in AAV21209), a large circular extra-chromosomal element (the 58407 bp sequence given in AAV21210), and a small circular extra-chromosomal element (the 16550 bp sequence given in AAV21211), can be used in the identification of M. jannaschii genome
                                                                                                                                                                                                                    Sequence 1664976 BP;
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li - useful in identification of
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                                                                                                                                                                                                                                                                    luAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPheIle------AsnA 400
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ATAGAT---ATCAACAAGTTTTTAAAATCCA 1419239
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                                                                                                                                                                                                                                                                  Sequence 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUL-1992.
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                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 15; Fig 10; 24pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   providing immunity in cattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Monoclonal antibody to Babesia bovis parasite - used antigens for use in vaccines for treating Babesiosis
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121
                       201
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CAAACATTGAGTGATATCATCAGGTGGAATGTTCCTGAAGAT
                                            1992-218727/27
            ArgAlaLeuLysGlnIleIleArgSerAsnLeuProLeuAsp 214
                                                                                             AACAAGGTACTTTATATGGCTACCATGGACTACAAGACTTATTTGACAGTAAACAGTATG
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RESULT 11
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                                                                                                 US-09-807-459-2 (1-458)
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20-JUN-1997;
22-JUL-1997;
22-JUL-1997;
 6676
                                                                                                                                                                                                                                                           AAX20248 to AAX20402 represent polynucleotide sequences isolated from Borrelia burgdorferi (Bb). Products derived from Bb can be used for the detection, diagnosis, characterisation, prevention and therapy of Bb infections, e.g. Lyme disease. They can also be used for the production of biosynthetic products, e.g. enzymes. Borrelia belongs to a family of motile, spiral-shaped bacteria called Spirochetes. Spirochetes are pathogenic in humans and Borrelia causes epidemic and endemic relapsing fever, and Lyme borreliosis, more commonly known as
                                                                                                                                                                                                                                                                                                                                                                            Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                New isolated Borrella burgdorferi nucleic acids - used to
products for the detection, diagnosis, characterisation,
and therapy of infections, particularly Lyme disease
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 CTTGTAGCATATCTTGCCGGCAAGTGGGTGCAAGGCATGAAAATGTTGTTCAAGGCCATT
                                                  AlaThrLeuTyrTyrLysThrTyrThrAsnValAspGluPheGlyAlaSerPhePheAsn
                       LysLeuSerPheThrThrGlyLeuPheGlyTrpGlyIleLysArgAlaLeuLysGlnIle
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relapsing fever; endemic
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characterisation; detection; ds.
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fever; Lyme borreliosis;
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IleArgSerAsnLeuProLeuAspIleGlyThrGluHisSerValSerArgLeuGlnHis

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RESULT 12
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              Borrelia burgdorferi; spirochete; bacterium; pathogen; I epidemic relapsing fever; endemic relapsing fever; Lyme infection; diagnosis; characterisation; detection; ds.
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                                                                             Borrelia burgdorferi polynucleotide sequence
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20-JUN-1997;
22-JUL-1997;
22-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX20248 to AAX20402 represent polynucleotide sequences isolated from Borrella burgdorferl (Bb). Products derived from Bb can be used for the detection, diagnosis, characterisation, prevention and therapy of Bb infections, e.g. Lyme disease. They can also be used for the production of biosynthetic products, e.g. enzymes. Borrella belongs to a family of motile, spiral-shaped bacteria called Spirochetes. Spirachetes are pathogenic in humans and Borrella causes epidemic and endemic relapsing fever, and Lyme borrellosis, more commonly known as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated Borrelia burgdorferi nucleic acids - used to develop products for the detection, diagnosis, characterisation, prevention and therapy of infections, particularly Lyme disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 111309
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(MEDI-) MEDIM
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              GAAGCTCTATAC
                                                                                                        ThrGlyLeuPheGlyTrpGlyIleLysArgAlaLeuLysGlnIle---
                                                                                                                                                                     ThrTyrThrAsnValAspGluPhe---GlyAlaSerPhePheAsnLysLeuSerPheThr 191
                                                                                                                                                                                                                                      AlaThrAspIleGluAsnPheAlaSerArgTyrLeuTyrMetAlaThrLeuTyrTyrLys
                                                                                                                                                                                                                                                                       AAAGCTTTTTTAAGTTATGGATTTTATAATCTTAAAAGAAATTTTAACAGAGAA-----
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                                                      Borrelia burgdorferi; spirochete; bacterium; pathogen; Lyme epidemic relapsing fever; endemic relapsing fever; Lyme born infection; diagnosis; characterisation; detection; ds.
                            Borrelia burgdorferi
                                                                                                                       Borrelia burgdorferi polynucleotide
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                                                                                                                                                                                                                  standard;
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                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                        -ArgLysValSerThrGluAlaAspAsnLeuLeuGlu
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20-JUN-1997;
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22-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 910715 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         production of biosynthetic products, e.g. enzymes. Borrelia belongs to a family of motile, spiral-shaped bacteria called Spirochetes. Spirochetes are pathogenic in humans and Borrelia causes epidemic and endemic relapsing fever, and Lyme borreliosis, more commonly known as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX20248 to AAX20402 represent polynucleotide sequences isolated fr Borrelia burgdorferi (Bb). Products derived from Bb can be used for the detection, diagnosis, characterisation, prevention and therapy Bb infections, e.g. Lyme disease. They can also be used for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated Borrelia burgdorferi nucleic acids - used to products for the detection, diagnosis, characterisation,
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                                                                                                                                                                                                                                                                              AAAGCTTTTTTAAGTTATGGATTTTATAATCTTAAAAGAAATTTTAACAGAGAA-----
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                       ArgLeuGlnHisIleThrSerSerTyrLysAspTyrMetAspThrGlnIleProAlaLeu
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/note= "encodes AAY93249"
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/note= "encodes AAY93245"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide encoded by an operon including genes from Escherichia coli for screening potential drugs, detecting virulence and treating conditions associated with infection by a Gram negative bacterium
                                                                                                                                                                                                                                                                5811
                                                                                                                                                                                                                                                                                                                                                                                                                                                              5724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 11165 BP; 3592 A; 2087 C; 2458 G; 3028 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence encodes Escherichia coli virulence proteins The specification describes virulence proteins which are encoded by an operon including tata, tatb, tatb, tatb, mado, creC, recG, yggN, eckl, irob, iroE, mtd2 or msl-16 genes obtained from Escherichia coli KI. The virulence proteins and polynucleotides, and their vaccines are useful for screening potential drugs, for the detection of virulence, and for treating or preventing conditions associated with infection by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 83-101; 122pp; English.
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Feldman RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5664 ATTATAGCTCGTTTTAGAGACTATCTGGAAGATGGTGAGTGCATTGACAGAATTAGCGAA 5723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-376550/32
                                                                                                                                                                                                                                                                                                192
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                                                                                                                                                                                                                                                                                                                                                                                                                               152
                              237 ThrGlnIleProAlaLeuProLysPheAlaLysArgPheSerLeuMetVal------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gram negative bacterium particularly Escherichia coli.
 TCAGATACGGATTTTCTA---AAAATAGAAAAGGAGAACGTTATCCGCTTCTGAATAT 6092
                                                               GATAGATATGGTGGTTTATATATCTATCGAGATGGATTAAGAATTTTGCCCCTATGGAGAT 6035
                                                                                                                                                                                                                                                             GTTTCTGTTTATGGTGAAGAGCCAATTCATCATGTCGTGACTTGGAAAAATAATAATCAA 5870
                                                                                                                                                                                                                                                                                               ThrGlyLeuPheGly----
                                                                                                                                                                                                                                                                                                                                                  LysThrTyrThrAsnValAspGluPheGlyAlaSerPhePheAsnLysLeuSerPheThr 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCAATTTTTTTACACCGCAAGAATTCAATCTTGCAGATCACCAC------
                                                                                                                            TCACGCTTACCCATGGAGTTGTGG--------GCCCCTCTGAAGGAGAAAACA 5975
                                                                                                                                                             SerAsnLeuProLeuAspIleGlyThrGluHisSerValSerArgLeuGlnHisIleThr 228
                                                                                                                                                                                             TTAACCCAATGCGGTCCATTTAAAATAAAATTAGCGTATATTCATGGTCGGCTTCGTGAT 5930
                                                                                                                                                                                                                               LeuLysGln-----
                                                                                                                                                                                                                                                                                                                                                                                                                          AspAlaThrAspIleGluAsnPheAlaSerArgTyrLeuTyrMetAlaThrLeuTyrTyr 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HisSerTyrPheHisAspLeuValPheAsnLeuLeuGluLysAsnValThrArgAspAla 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AsnSerThrGluLysArgPheTrpMetArg------PheArgArgGlyLysAsn 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAY93237,
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                                                                                                                                                                                                                                                                                                                                                                                              ----ATTGAAGGATGG----
                                                                                                                                                                                                                                                                                                                              ----TTCAATGAATTTGGT------CAATTCAGTGGAACT 5810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY93238, AAY93239, AAY93240, AAY93241,
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                                                                                            TyrLysAsp-----
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X X X X E X T T X AC	Qy Db RESU AAV7 ID XX	Оу Оу Оу	Qy Db	0y 0y 0y	Db Qу Db	0 D Q V	Db Qy Db	Qy Qy	Qy Db	Оу
AAV719 11-FEB S. Cer TIH1; casein	<u> </u>	432 6717 440 6777	418 6657	378 6546 398	6426 358 6486	319 6387 339	6273 299 6333	275 6213 283	262 6153	254 6093
71915; FEB-1999 (first entry) cerevisiae CIN8 DNA sequence.	AlaAspAsnLeuLeu 456 ::: ::: CCAAATAGGTTAATT 6851 	PhelleAsnLysGluIleArgAsp	THATCTAATTHATGGGATAGATAGTCAAATAGAAAGACAAAAATACTGTTATCACTA 6656 ASPASPLeuPheGluAsnLysIleGlyGlnGlyThiValasp 431 ::::: :: :: AATGAGCTAAAAGATAACGTTGATAGAAAGCTTATAGAACTGGATAATAAAAATAATGAT 6716	ValSerThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPhe 397 :::	GARATARATAAGCTAATCAATAAAAACGAGGAATATTTCTCCCAGTACAGAAATAACAGAC 6485 GlyThrValaspPheIleAsnAsnGluIleArgAspProSerLysalaLeuIleArgLys 377 GLYThrValaspPheIleAsnAsnGluIleArgAspProSerLysalaLeuIleArgLys 377 ACCAATATAGATTATGTATACAATAAAATTAAAGAACAAAATGATGCTATCATTAAAAAT 6545	338 642 357	ATGTCTGAATTATTTGTTGAGAACAAGCTAGAAGTGAATGAA	MetLysLeuLysAsnPheMetVal	TTAGTTGAAAAAGCTGGGCGAGAAGGATTCATTGAAAATAAGCCATATAAAACAGTTTAAA 6212	

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This represents the DNA sequence of Saccharomyces cerevisiae CIN8 that belongs to the yeast kinesin gene family. The invention relates to TIH proteins that interact with casein kinase I (CKI) isoforms. A host cell transformed with a DNA expression construct containing the TIH1 DNA can be used to produce recombinant TIH1 polypeptide which is used for research purposes. The TIH proteins are used to map TIH epitopes in the development of epitope-specific agents that may be useful for modulating CKI/TIH protein interactions involved in cell growth in health and disease, e.g. cancer or viral infections
 1471
                                                                                                                                                                                                                                                                     1231
                                                                                                                                                                                                     1291
                                                                                                                                                                                                                                                                                                                                                                                                      1111 CAACAGAACGATTACGTAGTAAAATGTTCGTTCATTGAACTCTACAACGAAGAATTGAAG 1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1051 AGCGATGCAGCAGGAATTATACCGAGGGTTCTTTTGAAGTTGTTTGACACATTGGAACTA 1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 3883 BP; 1495 A; 652 C; 680 G; 1056 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Polynucleotide encoding yeast TIH1 polypeptide - useful for producing recombinant polypeptide
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21-JAN-1994;
                                                                                                                                                                                                                                                                                                                                    1171 GACCTCTTGGACAGCAATAGCAACGGCTCTAGTAATACTGGCTTTGACGGCCAATTTATG 1230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 3; Columns 239-244 (columns 65-70); 46pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                  24 AlaAlaAsnAlaTyrMetIle------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 SerAspSerValGlyAspValThrLysThrLeuLeuAlaAlaSerGluSerValAspSer
                               ThrGlu----
                                                                                 TyrGlnLeuGluAlaAlaPheIleLeuPheLysGluSerAspAlaAsnProAlaAsnSer 117
                                                                                                                                                                                                                                                                                                 GluArgIleCysSerGlnValProLysGlySerAsnCysSerAlaSerValSerAlaTyr
ACTAATAATGCTTCTAGTAACACCAACACAAATAACGGTCAAAGAAGTTCGATGGCTCCA 1530
                                                              TATCAACAACAACAGGCAGTGAATTCCAGGAACAACTCTTCCTCTAACTCTGGCTCTACC
                                                                                                                                 GCTGCTCTATTAAGAAAAAGGTTAAGGACAAAATCACTGCCGAATACCATCAAGCAACAG 1410
                                                                                                                                                                Ser-----LeuLysTyrProLeuGluAlaLysTyrGlnProLeuThrLeuProAspPro
                                                                                                                                                                                                 AGTTCCAGGAGTAATTCTAGGAACAGTTCTCCGAGGTCATTAAATGATCTAACACCTAAA 1350
                                                                                                                                                                                                                                  MetSerArgCysAlaLysGlnAspCys-----
                                                                                                                                                                                                                                                                   AAAAAATTGAGGATTTTTGCTTCAAGCACAGCAAATAATACCACTAGCAACAGTGCTAGT 1290
                                                                                                                                                                                                                                                                                                                                                                     AspTyrLeuSerAlaValSerAsp-----
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94US-0184605
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2550	ATGCATATTACTAAAGAAATTAAAAAAATTGAAATCTACACTGTTTTTACAATTAAACACT	2491	Db
380	AsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysVa	363	Qy
2490	ATGCAAATGGCCCTACATGATTACAAAAAAAAGAGAACTTGACCTTAATCAAAAGTTTGAA	2431	망
362	- F	360	Qy
4-	GAAATTGAAATATCCGATTTTAATAACAAACTACAGAAGTTGACTGAGGT	2374	B &
u	lSerasnaspalaLvsaspLeuPheGluasnLvsIleGlvGlnGlvThr	w	0
2373	:::	2314	Db
341	luIleArgAspProSerLysAlaLeu	331	Qy
2313	CTAGTAAAAGATAAATTGAAGTCAAAAGAAACTATTCAATCTCAAAATTGC	2263	Db
330	3AspLeuPheGluAsnLysIleGlyG	311	Qy
2262	CGAAAAAT	2215	ф
310	LysPhePheAsnLysGluIleArgGluProSerLysAlaLeuLysGluLysValSerThr	291	Qy
2214		2173	망
290	sTrpTyrMetLysLeuLysAsnPheMetValAsnArgValPh	271	Qy
2172	AAATCCGATTTACTCTACAAAGTCCAAAGAAGGAATATATAT	2113	망
270	GlyTyrValAspThr	254	Qy
2112	GGTTCATTTATAATGAAGGATATTTTGGTTAAAAAATATAACTATGGAATTAGCAAAGATT	2053	망
253	heAlaLysArgPheSerLeuMet	243	Qy
2052	ACATTAGAGTATGCTTCGAAGGCTAAAAACATTAAGAACAAGCCGCAACTG	2002	망
242	lnHisIleThrSerSerTyrLysAspTyrMetAspThrGlnIl	223	Qy
2001	CTAATTGCTACTATATCGCCTGCAAAGGTAACTTCTGAAGAAACCTGCAGT	1951	Db
222	sGlnIleIleArgSerAsnLeuProLeuAspIleGlyThrGluHisSerValSe	203	Qy
1950	CGTGAATCGAAATTGACCCGCCTGCTTCAAGATTCCCCTGGGTGGTAATACGAAAACCGCA	1891	망
202	IleLysArgAl	194	Qy
1890	CTATTGACGCTGGGCAGGGTCATAAACGCACTCGTAGATAAAAGCGGCCATATACCTTTC	1831	В
193	SerPheThrThrGly	189	Qy
1830	ATCAACAGATCCGGAGCATTAAATCAACGTGCCAAAGAAGCTGGTTCAATCAA	1771	Вb
188	AspGluPheGlyAlaSerPhePheA	177	Qy
1770	CAGGATGAACTATTTAGAATTTCCAAAATGAATCTTGTGGATTTAGCTGGTTCAGAAAAC	1711	망
176	TyrThrAsn	174	Qу
1710	TCTCATACCATTTTTACAATCACTTTGTATAAGAA	1651	рь
173	SluAsnPheAlaSerArgTyrLeuTyrMetAlaThrLeuTy	156	Qy
1650	ATGGAGGGGCTAAACCTATTACAAAAAGGCTTAAAGCATAGGCAAGTAGCGTCCACTAAA	1591	ф
155	snValThrArgAspA	140	Qy
1590	ATGACCAAACTAATGGTATATACATCCAGAATTTGCAAGAATTTCACATAACAAATGCT	1531	Дb
139	ArgArgGlyLysAsnHisSerTyrPheHisAspLeuVal	127	Qy

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RESULT 16
AAH78010
ID AAH78
XX AAH78
XX AAH78
XX IDIMC;
XX BIMC;
XX BIMC;
XX English
XX BIMC;
XX FT CDS
FT TI
XX US628
XX IOMAC
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XX IOMAC
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The present sequence encodes a bimC homologue, designated cin8. BimC is a kinesin related protein, which is essential for fungal viability. The specification describes a method of identifying modulators of bimC. The method comprises adding a test agent to a mixture comprising bimC protein that directly or indirectly produces ADP or phosphate, subjecting the mixture to an enzymatic reaction that uses the ADP or phosphate, and determining the enzymatic activity in presence and absence of test compound. A change in the activity level between the presence and absence of the candidate agent indicates a modulator of the target protein function. The method is useful for identifying a modulator, e.g. antifungal agents, of bimC. The modulators can be used, for example, to
                                                                                                                                                                                                                                                                                                        Identifying a modulator, e.g. antifungal agent, of a tary comprising bimC or its fragment by determining enzymatic reaction, in the presence and absence of the compound, the
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                                                                                                                                                                                                                                                 Disclosure; Fig 3A-B; 47pp;
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Percent Similarity:
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                                                                                                   -----CTTTCTGATATTAGCGAAGAAAATAACAACATG 2815
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Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                             Alignment Scores: Pred. No.:
                                                                                                                                                                                                                                                                                                                                                    The PfEMP3 malarial antigen is recognised by monoclonal antibody MAb 12C11. Nucleic acid sequences encoding part of the 315kD antigen, have been isolated and sequenced. PfEMP3 is encoded on chromosome 2 of the P.falciparum genome and is thought to be associated with knob formation and structure; malarial strains carrying deletions of the gene coding for PfEMP3 exhibit a knobless phenotype.
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                                                                                                                                                                                                                                                                                                                                 Sequence 4766 BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New malaria antigen, PfEMP3 -
for use in diagnosis, therapy
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DB; AAR46605.
                                                                     AAAGAATTACAAAATAAAGGATCTGAAGGATTAAAAGAAAATGCAGAGCAAAAAAATAAA
                                                                                                                   AAAGAATTA---CAAAATAAAGGATCTGAAGGATTAAAAGAAAATGCAGAATTAAAAAAT
                                                                                                                                LysAspLeuPheGluAsnLysIleGlyGlnGly-----ThrValAspPhePheAsn
                                                                                                                                                                AspProSerLysAlaLeuIleArgLysValSerThrGlyAlaGluAspLeuPheGlu---
                        GAATTA---CAAAATAAAGGATCTGAAGGATTAAAAGAA----
                                            LysGluIleArgAspPro---SerLysAlaLeuLysGluLysValSerAsnAspAlaLys
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Conservative:
Mismatches:
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The present invention describes proteins and their fragments (I) encoded by chromosome 2 of the human malarial parasite, Plasmodium falciparum. Also described are: (1) nucleotide sequences (II) encoding (I); and (2) vaccines against p. falciparum infection comprising (I) or (II). (I) and (II) are useful for the development of vaccines against p. falciparum infection. (I) and polyclonal antisera or a monoclonal antibody raised to immunogens comprising the sequences of (I), are useful in the detection of infection with p. falciparum. Furthermore, (I) (especially when they are rifins or secreted or membrane proteins) can aid the identification of drugs to treat or prevent p. falciparum infection, or they can be used to identify drug resistance in p. falciparum. Sequencing of the plasmodium chromosome 2 and the
                                                                                                                                                                                                                         Proteins encoded by chromosome 2 of the human Plasmodium falciparum, useful as antimalarial diagnosis of P.falciparum infection -
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                                                                                                                                                                                               Disclosure; Page 454-456; 577pp; English
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CARUCCI D.
GARDNER M.
VENTER J C.
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protozoacide; infection; insecticide;
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AAA81514/c
ID AAA81514 standard;
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                             N. meningitidis partial DNA sequence gnm_61 SEQ ID NO:61
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                                                                                                                                                                                                      GAACTATTAAATAAA
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118.50
48.65%
31.35%
5.02%
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Neisseria meningitidis; Neisseria gonorrheae; genome; immunogenic;

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                                                                                                                                                                                                                                                                                                                                                                                                                       CC proteins from Neisseria genomic sequences. AAA81463 to AAA82414
CC represent specifically claimed Neisseria meningitidis genomic DNA
CC sequences; AAA81260 to AAA81303 and AAB25620 to AAB2563 represent
CC Neisseria DNA sequences and their corresponding proteins; AAA81254 to
CC AAA81259 and AAA81304 to AAA81321 represent PCR primers used in the
CC sequences, which are all used in the examplification of the present
CC sequences, which are all used in the examplification of the present
CC sequences, which are all used in the examplification of the present
CC composition The nucleic acid sequences, protein sequences, and antibodies
CC composition can be used in the manufacture of a composition. The
CC composition can be used as a medicament (or in the manufacture of a
CC medicament) for treating, preventing or diagnosing infection due to
CC emedicament) for treating preventing or diagnosing infection due to
CC composition can be used as a medicament (or in the manufacture of a
CC endoposition can be used as a medicament (or in the manufacture of a
CC medicament) for treating preventing or diagnosing infection due to
CC endoposition can be used as a medicament of the identified proteins could
CC be components of vaccines against Meningococcus B; against all serotypes;
CC and/or against all pathogenic Neissariae. Identification of sequences
CC particularly organism-specific probes. Attempts to make efficacious
CC Meningococcus B vaccines have failed mainly due to antigen tolerance.
CC conter manufacture also been tried but none have successfully
CC overcome antigenic variable. The provision of further, complete
CC exposed proteins that may be presumed targets for the immune system and
CC other more variable racions
CC other more variable racions
CC other more variable variable or at least more conserved than
                                                                                                                                                                                                                                                Best Local Similarity:
                                                                                                                                                                                                                                                                   Percent Similarity:
                                                                                                                                                                                                                                                                                          Score:
                                                                                                                                                                                                                                                                                                            Alignment Scores: Pred. No.:
33063 GGTTTGAAT-----
                                                                                 33123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Isolated nucleotide sequences of Neisseria meningitidis which can be used in the diagnosis and treatment of N. meningitidis infection and other Neisserial infections, for example, N.gonorrhoea -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes methods of obtaining immunogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 7; Page 1375-1385; 1760pp; English.
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Masignani V, Galeotti C,
Rappuoli R, Pizza M;
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30-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                        Sequence 33303 BP;
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                                      114 ProAlaAsnSerThrGluLysArgPheTrpMetArgPheArgArgGlyLysAsnHisSer 133
                                                                                                                        94
                                                                             TTGGGTGACCGTTATGCGGATGATGCTGCATTGTCGGTAAGGATGCAAACTTAAAT
                                                                                                      LeuProAspProTyrGlnLeuGluAlaAlaPheIleLeuPheLysGluSerAspAlaAsn 113
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99US-0132068.
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Indels:
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Conservative:
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Ratti G, S
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GlnGlyThrVal 430 ::: ::: GAAGGCTGGATC 32059	ArgLysValTyrThrGluAlaAspAspLeuPheGluAsnLysIleGly	411 32112	Оу В
Ile 410 CAGTTTT 32113	3 GlyThrValAspPheIleAsnAsnGluIleArgAspProSerLysAlaLeuIle 	393 32172	Ф
eGlyGln 392 ::: -GCCAAA 32173	AlaLeuIleArgLysValSerThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGln	373 32226	Ф
oSerLys 372 ::: aGCTAAA 32227	3 AsnLysIleGlyGlnGlyThrValAspPheIleAsnAsnGluIleArgAspProSerLys :: :: 7 GGTTCAGCAGAGAAAGCTAAA	353 32247	оу Оу
uPheGlu 352 ::: GGCTGAC 32248	3 ArgAspProSerLysAlaLeuLysGluLysValSerAsnAspAlaLysAspLeuPheGlu 	333 32304	ф
sGluIle 332 ::: AGGTGTC 32305	3 LysaspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPhePheAsnLysGluIle 	313 32364	Qу
ThraspThr 312 ; aCTCAGGCT 32365	GCTGCTGGCAAGGAATTTGGGAGATGACTTAAATACACAGTGGAATAATCTC	310 32424	Db dd
309 ATGATATGAAA 32425	IleargGluProSerLysAlaLeuLysGluLysValSer:	297 32484	Дy
nLysGlu 296 TAATAAC 32485	LeuLysAsnPheMetValAsnArgValPheIleProThrLysLysPhePheAsnLysGlu 	277 32544	рь
-TyrMetLys 276 AATCAATGAT 32545	TyrValAspThrProTrpTyrLysLysTrp	264 32604	дb
rValAlaGly 263 	PheAlaLysArgPheSerLeuMetValValGlnArgLeuLeuAlaTh	245 32664	Ф у
244 ATCTTTT 32665	TyrLysAspTyrMetAspThrGlnIleProAlaLeuProLys	231 32724	ду ОУ
rSerSer 230 CGGTAGC 32725	IleGlyThrGluHisSerValSerArgLeuGlnHisIleThrSerSer 	215 32784	р О
LeuAsp 214 TGGGCATTAGGT 32785	LeulysGlnIleIleArgSerAsnLeuPro	203 32844	дь VQ
BArgAla 202 GCAGCT 32845	SerPhePheAsnLysLeuSerPheThrThrGlyLeuPheGlyTrpGlyIleLysArgAla 	183 32892	Db Qy
eGlyAla 182 rGAGAGA 32893	TyrThrAsnValaspGluPheGlyAla 	174 32952	DP OA
YrLysThr 173 :::::: TCAGGCAA 32953	ThrAspIleGluAsnPheAlaSerArgTyrLeuTyrMetAlaThrLeuTyrT :::	154 33000	B 6
aAspAla 153 AAG 33001	TyrPheHisAspLeuValPheAsnLeuLeuGluLySAsnValThrArgAspAlaAspAla 	134 33036	Db Qy

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Alignment
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   Percent Similarity:
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                                                                                                                                                                                       sequences which overlap each other at the beginning and end of each sequence by 49980 bp (i.e. the last 49980 bp of AAF21544 is repeated at the beginning of AAF21607, the last 49980 bp of AAF21607 are repeated at the beginning of AAF21608, and so on). AAF21545 to AAF21588 encode the Neisseria proteins given in AAB58550 to AAB58593, and AAF21588 encode the Neisseria proteins given in AAB58550 to AAB58593, and AAF21589 to AAF21606 represent PCR primers which are used in the exemplification of the present invention. The NMB genome and fragments from it have antibacterial activity, and can be used in vaccines and gene therapy. Neisseria nucleic acids, proteins and/or antibodies which binds to the proteins can be used in compositions for treating or preventing infection due to Neisserial bacteria or as a diagnostic reagent for detecting the presence of Neisserial bacteria or of antibodies raised to Neisserial
                                                                                                                                                 bacteria. Computers, computer memory, computer storage medium or computer databases can be used in a search to identify open reading frames (ORFs) or coding sequences within the NMB genome. The DNA sequences provide
                                                                                                                                                                                                                                                                                                                                                                               The present invention describes the full length genome of Neisseria meningitidis B (NMB). The sequences in AAF21544 and AAF21607 to AAF21613 represent fragments of the NMB genomic sequence, as the sequence was too long to go in a record on its own it was split into 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim
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                                                                            Sequence 349980
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(GENO-) INST GENOMIC RES.
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          polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS9454 represent novel human
                                                                                                                                                                                                                                        The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromo and gene mapping, and in recombinant production of (II). The
                                                                                                                                                                                                                                                                                                                                                                    New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -
                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID No 6846; 103pp; English
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P-PSDB; ABG06855.
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23-AUG-2000;
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food supplement; medical imaging; diagnostic; genetic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA encoding novel human diagnostic protein #6846
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                     The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of
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The sequence data for this patent did not form part of the principle sequence data for this patent did not form the principle specification, but was obtained in electronic format directly in the control of the principle of the control of the principle of the control of the principle of the 
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  identified in a population of gamma-ray mutagenised plants. The ESD4 gene was then identified by complementation and sequencing of the mutant allele. Regulation of ESD4 gene expression is used to alter (advance or delay) the time of flowering of transgenic plants. Overexpression delays flowering while underexpression promotes it, e.g. to ensure simultaneous flowering of both parents in hybrid production, or to regulate flowering according to climatic conditions. ESD4 nucleic acids can also be used as
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                                                                                   mutation affecting the ESD4 gene flower earlier than their wild-types under long and short days. The esd4 mutant was
                                                                                                     This is the nucleotide sequence of the early short days 4 (ESDA) gene of Arabidopsis thallana ecotype Columbia (with part of the sequence from an ecotype Landsberg erecta clone) that plays a role in the regulation of flowering time. Plants carrying a recessive
                                                                                                                                                                             New nucleic acid of the Arabidopsis thaliana ESD4 gene - regulating flowering time in plants
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                                                                                                                                                                  ProAspProTyrGlnLeuGluAlaAlaPheIleLeuPheLysGluSerAspAlaAsnPro
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         PheSerLeuMetValValGlnArgLeuLeuAlaThrValAlaGlyTyrValAspThrPro
                               GCTGAGATTTCAAAGTCTTTGACACCGTTGCTTCTTATGGGTTTACATCAAGCGAGAAAT 8906
                                                                                                                      CCTTTA----TTGGCGTTGGAGCACTCTGGAGTTTTGAATTATGATCGATTGATGGAAATG
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                                                                                                ThrSerSerTyr------LysAspTyrMetAspThrGlnIleProAla 241
                                                                                                                                           ProLeuAspIleGlyThrGluHisSer------ValSerArgLeuGlnHisIle
                                                                                                                                                                                                                                  TyrThrAsnValAspGluPheGlyAla-----SerPhePheAsnLysLeuSerPheThr 191
                                                                                                                                                                                                                                                         ACTGAAGAAGGTGGATTTGATGCGAAATTGATGTTTATAGTG------
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          P-PSDB; ABG11978
                    WPI; 2001-639362/73
                                                                                     31-MAR-2000; 2000US-0540217
23-AUG-2000; 2000US-0649167
                                                                                                                                                                                                                                                                                           AAS76165;
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                                           Drmanac RT,
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                                                                                                                                                                                        Homo sapiens
                                                              (HYSE-) HYSEQ INC
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                                         Liu C,
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Human; chromosome mapping; gene mapping; gene therapy;
food supplement; medical imaging; diagnostic; genetic (
                                                                                    DNA encoding novel human diagnostic protein #11969
                                                                                                                                                                                                                                                                                                                                                                                     9447 GAT---GAGAAGGCGGCTGTAAGGAGCAGCT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AACCCTCTAGGAGATATTAGTTCAGAGAATGGGTTGAAAGATTCGTGGGGCCTTGGGTTGT
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Pred. No.:
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CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or treat disease states involving
CC (II), (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC and to produce other types of data and products dependent on DNA and
CC diagnostic coding sequences of the invention.
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at fip.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                           1974
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                                                                                                                                                                                                                                                             1918 ----CAAGAGAGCCAAATCATGAGTGAACTCCCATTCACAACTGCTTCAAAGAGAATAAA 1973
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                                        -----ArgTyrLeuTyrMetAlaThrLeuTyrTyrLysThrTyrThrAsnVa 177
                                                                                     ACTGCTCAATGAAATAAAAGAGGATACAAACAAATGGAAGAACGTTCCATGTTCATGGGT
                                                                                                                                                                         ATACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTCAAGGAGAACTACAAACC
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Db Qy	177 2146	AsnLysLeuSerPh 1 ::: ACAGAATTGGAAAA 2
Db Qy	190 2202	eThrThrGlyLeuPheGlyTrpGlyIleLysArgAlaLeuLysGlnIleIleArgSerAs 210
Qy	<u>, </u>	N
Дb	2256	CCTANGCCAAAAGAACAAAACTGGAGGCATCACGCTACCTGACTTCAAACTATACTACAA 2315
Qy	230	MetAspThrGlnIleProAlaLeuProLysPheAlaLysArgPhe 249
B	2316	GGCTACAGTAACCAAAACATCATGGTACTGGTACCAAAACAGAGATAT 2363
Qy	250	Gln
дb	2364	AGATCAATGGAACAGAACAGAGCCCTCAGAAATAATGCCACATATCTACAACTATCTGAT 2423
VΩ	266	AspThrProTrpTrpTyrLysTysTrp 273
Db	2424	CTTTGACAAACCTGACAAAAACAAGCAATGGGGAAAGGATTCCCCTATTTAATAAATGGTG 2483
Qy	274	TyrMetLysLeuLysAsnPheMetValAsnAr 284
Вр	2484	CTGGGAAAACTGGCTAGCCATATGTAGAAAGCTAAAACTGGATCCCTTCCTT
Qy	.284	gValPheIleProThrLysLysPhePheAsnLysGluIleArgGluProSerLysAl 303
Db	2544	TACAAAAATTGATTCAAGATGGATTAAAGACCTTACATGTTAGACCTAAAACCATAAAAAC 260
Qy	303	PheGluAs
Db	2604	CCTAGAAGAAAACCTAGGCAATACCATTCAGGACATAGGCATGGG 264
Qy	323	yThrValAspPhePheAsnLysGluIleArgAspProSerLysAlaLeuLysGluLysVa 343
B	2649	CAAGGACTTCATGTCTAAAACACAAAAAGCAATGGCAACAAAAGC 2693
Qy	343	lSerAsnAspAlaLysAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPheIl 363
Ъ	2694	
Qy	363	eAsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysValSerThrGl 381
Дb	2728	AGCTTCCGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCTACAAC 2780
Qy	381	yAlaGluAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPheIleAsnAsnGl 401
рь	2781	ATGGGAGAAATTTTTGC 2798
Qy	401	LysValTyrThrGluAlaAsp <i>l</i>
ф	2799	AATCTACTCATCTGACAAAGGGCTAATATCCAGAGTCTACAATGAACTCAAACAAA
Qy	421	GluAsnLysIleGlyGlnGlyThrValAspPheIleAsnLysGluIleArgAspProS :::
Ф	2859	AÀAÀACAÀ
g Qy	441 2895	Valser] TTCTCC#
RESU AAS7 ID	JLT 25 74637 AAS74	637 standard; cDNA; 11087 BP.
	AAS74	.637;
X II	13-FE	B-2002 (first entry)
DE	DNA e	ncoding novel human diagnostic protein #10441.

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                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to isolated polynucleotide (I) and C polypeptide (II) sequences. (I) is useful as hybridisation probes, CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The C polynucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques CC (II). (II) is useful in gene therapy techniques CC (II). (II) is useful for generating antibodies against it, detecting or CC (II). (II) is useful for generating antibodies against it, detecting or CC (II). (II) is useful for generating antibodies against it, detecting or CC (II). (II) and its binding partners are useful in medical activity. The polypeptide in tissue, as molecular weight markers and as CC affood supplement. (II) and its binding partners are useful for treating CC imaging of sites expressing (II). (I) and (II) are useful for treating CC imaging of sites expressing (II). (I) and (II) are useful for treating CC diagnostics, forensics, gene mapping, identification of mutations in CC diagnostics, forensics, gene mapping, identification of mutations CC and to produce other types of data and products dependent on DNA and CI amino acid sequences. AAS64197-AAS94564 represent novel human CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed CC at fits yipo. Introub/published pct sequences.
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23-AUG-2000;
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food supplement; medical imaging; diagnostic; genetic disorder;
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 11087 BP; 4422 A; 2400 C;
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                                                                                                                              AAAGGGTATTCAATTAGCAAAAGAGGAAGTCAAATTGTCCCTGTTTGCAGACGACATGAT
                                                                                                                                                               LysGlySerAsnCysSerAlaSerValSerAlaTyrMetSerArgCysAlaLysGlnAsp
                                                                                           CysLeuThrLeuGln---
---GlnProLeuThrLeuProAspPro-TyrGlnLeuGluAlaAlaPheIleLeuPheLy
                                                      TGTTTATCTAGAAAACCCCATCGTCTCAGCCCAAAATCTCCTTAAGCTGATAAGCAACTT
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                                   nLysIleGlyGlnGlyThrValAspPheIleAsnAsnGluIleArgAspProSerLysAl 408
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                                                                           GCAACCTACAAAA-
                                                                                                             gAspProSerLysAlaLeuIleArgLysValSerThrGlyAlaGluAspLeuPheGluAs
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2000US-0184664
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                                                                                                                                                                                                                                CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (1) CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) CC proteins and polynucleotides may be used in the prevention, diagnosis and CC treatment of diseases associated with inappropriate (I) expression. For CC example, they may be used to treat disorders associated with decreased CC expression by rectifying mutations or deletions in a patient's genome CC that affect the activity of (I) by expressing inactive proteins or to CC supplement the patients own production of (I). Additionally, (I) CC polynucleotides may be used to produce the secreted (I), by inserting CC the nucleic acids into a host cell and culturing the cell to express the CC grotein. (I) proteins and polynucleotides may be used to prevent, CC cancers and cancer metastases of haematopoietic-related diseases, especially CC cancers and cancer metastases of haematopoietic antigen genomic CC sequences from the present invention. AAK54942 to AAK5950 and AAM82169 CC represent sequences used in the exemplification of the present invention.
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                               TCAAAAGAA
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                                                                                                                           ThrValAspPheIleAsnLysGluIleArgAspProSerLysAlaLeuIleArgLysVal 448
                                                                                                                                                            CTAATATCCAGAATCTACAATGAACTCAAACAAATTTACAAGAAAAAA.
                                                                                                                                                                                         LeuIleArgLysValTyrThrGluAlaAspAspLeuPheGluAsnLysIleGlyGlnGly
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                                                                                                                                                                                                                                                                                                                    GlyAlaGluAspLeuPheGluAsnLys-----IleGlyGlnGlyThrValAspPhe
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AAK68992 standard; DNA; 42738

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                                    41141 TATAGATTCAATGCGTTCCCCCATTAAGCTACCAATGACATTCTTCACAGAATTGGAAAAA 41200
                                                                                                                                                                                        40961 TCAAAGAGAATAAAATACCTAGGAATCCAACTTACAAGGGATGTGAAGGGCCTCTTCAAG 41020
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expression by rectifying mutations or deletions in a patient's genome that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I) Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polynucleotides may be used to prevent, diagnose and treat immune/haematopoletic-related diseases, especially cancers and cancer metastases of haematopoletic-derived cells. AAK64703 to AAK87694 represent human immune/haematopoletic antigen genomic sequences from the present invention. AAK54942 to AAK54950 and AAM82169 represent sequences used in the exemplification of the present invention.
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08-DEC-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and
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260 ThrValAlaGlyTyrVal----
                                                                                                                                                                                                                                                                                                                                                                              174 TyrThrAsnValAspGluPheGlyAlaSerPhePheAsnLysLeuSerPheThrThrGly 193
                                                                                                                                                                                                                                                                                                  -----LeuPheGlyTrpGlyIleLysArgAlaLeuLysGlnIleIleArg 208
                                                                          LysArgPheSerLeuMetValValGln--
                                                                                                                CCATGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCCATACTGCCCAAGGTAATT 41140
                                                                                                                                                ThrSerSerTyrLysAspTyrMetAsp---ThrGlnIleProAlaLeuProLysPheAla
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2000US-0251856.

2000US-0251869.

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2000US-0254997.

2001US-0259678.
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metabolic disorder; hormonal disorder; immune disorder severe combined immunodeficiency; SCID; AIDS; thrombos	2 2
fection; allergy; cancer; regulation; tissue tivin activity; inhibin activity; chemokine tokine activity; blood coagulation regulation	222
NA encoding a protein identified	XX
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1915 TCAAAAGAA 41923	В
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1867ACAAACAACCCCATCAAAAAGTGGGCAAAGGATATGAACAGACACTTC	Вb
429 ThrValAspPheIleAsnLysGluIleArgAspProSerLysAlaLeuIleArgLy	δ
1819 CTAATATCCAGAATCTACAATGAACTCAAACAATTTACAAGAAAAAA	망
409 LeuileArgLysValTyrThrGluAlaAspAspLeuPheGluA	δ
:: TGAACAGGCAACCTACAGAATGGGAGAAAGTTTTTGCA	Вb
398 IleAsnAsnGluIleArgAspProSerLysA	QΨ
1699 GACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTACCATCAGA	B 3
381 GlvAlaGluAspLeupheGl	9 8
361 AspPheIleAsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysValSerThr	P 6
341 GluLysValSerAsnAspAlaLysAspLeuPheGluAsnLysIleGlyGlnGlyThrVa :: ::	dg Qy
1555 TCAAGATGGATTAAAGACTTAAACGTTAGACCTAAAAACCATAAAAACCCTAGAA	Db
ysGlu	VΩ
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302 LysAlaLeuLysGluLysValSerThrAspThrLysAspLeuPheGluAsnLysIleG	Qγ
1435 GACAAAAACAAGAAATGGGGAAAGGATTCCCTATTTAATAAACGGTGCTGGGAAAACTGG	В
287 IleProThrLysLysPhePheAsnLys	VΩ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 5; Page 139-140; 281pp; Japanese.
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P-PSDB; AAY02371.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ONOY ) ONO PHARM CO
535 CAGGAGAACACTCGACTACAGAATATCATTGACAACCAGAAGTAC------
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                                                       AlaAspAlaThrAspIleGluAsnPheAlaSerArgTyrLeuTyrMetAlaThrLeuTyr 170
                                                                                                                                                                                                                                                                                                                                                                                                                                         GluSerAspAlaAsnProAlaAsnSerThrGluLys-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AATGCAGAGCTGCAGTCAAAACTGAAGGATTTATTTAATGTGGATGCTTTTAAGCTGGAA 294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCATAAAATGCTATGAGAGTTTTATGAGTGGTGCCGAC----AGCTTTGATGAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SerValSerAlaTyrMetSerArgCysAlaLysGlnAspCysLeuThrLeuGlnSerLeu
                                                                                                                        ARATTARATGGTCTCAATGAGGAAATTGCTAGAGTAGAACTAGAATGTGAAACAATAAAA 534
                                                                                                                                                                                     ValPheAsnLeuLeuGluLysAsnValThrArg----
                                                                                                                                                                                                                                                   GTTCAAAAGTATCAGGCATACATGAGCAATTTGGAGTCTCATTCAGCCATTCTTGACCAG 474
                                                                                                                                                                                                                                                                                                              -----ArgPheTrpMetArgPheArgArgGlyLysAsnHisSerTyrPheHisAspLeu 138
                                                                                                                                                                                                                                                                                                                                                                               GAAAAAGAACCGAATCGTCTAGAGTCGTTGAGAAAACTGAAGGCTTCCTTACAAGGAGAT 414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----AlaAlaPheIleLeuPheLys 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LysTyrProLeuGluAlaLysTyrGlnProLeuThrLeuProAspProTyrGlnLeuGlu 101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            thrombosis; cancer; and traumatic or surgical wounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    97JP-0274674
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) 35721 standard; cDNA; 1613 BP.	RESULT 29 AAX35721 ID AAX35	
		Db 1408	
		ОУ 447	
1407		Db 1363	
446	ThrValAspPheIleAsnLysGluIleArgAspProSerLysAlaLeuIleArg	Оу 429	
1362	GATAGAGAATATGAAGAATGCATGTCAGAAGATCTCTCGGAAAAT	Db 1318	
428	TyrThrGluAlaAspAspLeuPheGluAsnLysIleGlyGlnGly	Qy 414	
1317	ATGGTTGCTACACATGTTGGGTCTGTAGAGAAACATCTTGAGGAGCAGATTGCTAAAGTT	Db 1258	
413	PhelleAsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysVal	Qу 397	
1257	ACCACGACTGAAGAAAGACGAAAAGTGGGAAATAACTTGCAACGTCTGTTAGAG	Db 1204	
396	ThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGlnGlyThrValAsp	Оу 380	
1203	AGTGAAGCTATGAATGAATTAGATGCTGTTCAGCGGGAATACCAACTAGTTGTGCAA	Db 1147	
379	ValAspPheIleAsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysValSer	Qу 360	
1146	GAGCTTGAGTCCTTGGAGAAACACAAGCACCTGCTAGAAAGTACTGTTAACCAGGGGCTC	Db 1087	
359	AspAla	Qу 346	
1086	GATCTTTACCAACAAAAATTAAGGAAGCAGAGGGAAGAGGATGAAAAATGTGCCAGT	Db 1030	
345	AspPhePheAsnLysGluIleArgAspProSerLysAlaLeuLysGluLysValSerAsn	Оу 326	
1029	ATGATAACAGAAAGCAAGAGAAGTGTGGGAACTCTGAAAGAAGAAGTTCAAAAAGCTGGAT	Db 970	
325	LeuPheGluAsnLysIleGlyGlnGlyThrVal	Qу 315	
969	ATTAATAAAGCCCTAAATAAAAAAATGGGTTTGGAGGATACTTTAGAACAATTGAATGCA	Db 910	
314	ProSerLysAlaLeuLysGluLysValSerThrAspThrLysAsp	Ωу 300	
909	AAATACAGGGCTCAAGTTTATGTACCTCTTAAGGAACTCCTGAATGAA	Db 850	
299	AsnArgValPheIleProThrLysLysPhePheAsnLysGluIleArgGlu	Qу 283	
849		pb 802	
282	ProTrpTyrLysLysTrpTyrMetLysLeuLysAsnPheMetVal	Qу 268	
801	AAATTAAAACTTATTCCTAAAGGTGCTGAGAATTCCAAAGGTTAT	Db 757	
267	ArgPheSerLeuMetValValGlnArgLeuLeuAlaThrValAlaGlyTyrValAspThr	Оу 248	
756	TATGCCAGAGGCAAAGAAGCGATTGAAACACAATTAGCAGAGTATCACAAATTGGCTAGA	Db 697	
247	TyrLysAspTyrMetAspThrGlnIleProAlaLeuProLysPheAlaLys	0у 231	
696	TTAACCAAGGACCTGGAAGCTGAACAACAGAAGTTGTGGAATGAGGAGTTAAAA	Db 643	<u>-</u>
230	LeuProLeuAspIleGlyThrGluHisSerValSerArgLeuGlnHisIleThrSerSer	Qy 211	
642	AGAATGAATTGCAGCAGACTATTAATAAA	Db 613	
210	ThrThrGlyLeuPheGlyTrpGlyIleLysArgAlaLeuLysGlnIleIleArgSerAsn	Qy 191	
612	TCAGTTGCAGACATTGAGCGAATAAATCATGAA	Db 580	
190	TyrLysThrTyrThrAsnValAspGluPheGlyAlaSerPhePheAsnLysLeuSerPhe	Qy 171	

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Best Local Similarity:
Query Match:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores: Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX35694-X35747 represent cDNA sequences that encode novel polypeptides (AAY0238-84) which are identified from a human placental cDNA library by the signal sequence trap (SST) method. The polypeptides have a broad range of physiological activity, including immunisation against and inhibition of infections, allergies and cancer; regulation of tissue formation and repair; activin/inhibin activity; chemokine/cytokine activity; blood coagulation regulation; and receptor/ligand agonist or antagonist activity. The polypeptides can be used for prevention and treatment of disorders including infections by bacteria, yeasts and viruses (including HIV) and protozoa; metabolic and hormonal disorders; immune disorders (including severe combined immunodeficiency (SCID) and AIDS; thrombosis; cancer; and traumatic or surgical wounds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 199
P-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-OCT-1997;
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metabolic disorder; hormonal disorder; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1613 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 141-144; 281pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polypeptides identified by the signal sequence trap method from a human cDNA library
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-OCT-1998;
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DB; AAY02371.
ACCATAAAATGCTATGAGAGTTTTATGAGTGGTGCCGAC----AGCTTTGATGAGATG
                                                                                                                                                                                                                                                                          SerValSerAlaTyrMetSerArgCysAlaLysGlnAspCysLeuThrLeuGlnSerLeu 81
                                                                                                             AATGCAGAGCTGCAGTCAAAACTGAAGGATTTATTTAATGTGGATGCTTTTAAGCTGGAA
                                                                                                                                                                   LysTyrProLeuGluAlaLysTyrGlnProLeuThrLeuProAspProTyrGlnLeuGlu 101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97JP-0274674
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         624 A; 243 C;
                                                                                                                                                                                                                                                                                                                                                                                                                              0.274
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                                                   -----AlaAlaPheIleLeuPheLys 108
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Matches:
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Indels:
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428	TvrThrGluAlaAspAspLeuPheGluAsnLvsTleGlvGlnGlv	414	Q
1415	::: GCTACACATGTTGGGT0	1356	DЬ
413	leAsnAsnGluIleArgAspProSerLysAlaLeuIleArgLysVa	397	Оу
	::: TGAAGAAAGACGAAAAGTGGGAAATAAC	0	Db .
396	hrGlyAlaGluAspLeuPheGluAsnLysIleGly	380	Qy
1301	::: ::: NTGAATGAATTAGATGCTGTTCAGCGGGAATACCAACTAGTTGT	1245	Db
379	spPheIleAsnAsnGluIleArgAspProSerLysA	360	Оу
N	::	8	DЬ
359	LysAspLeuPheGl	346	Qγ
1184	::: :::::: ::::::::::::::::::::::::	1128	DЬ
345	spPhePheAsnLysGluIleArgAspProSerLysAlaLeuLysGluLysValSerAs	326	Qy
1127	ATGATAACAGAAAGCAAGAAGTGTGGGAACTCTGAAAGAAGAAGTTCAAAAGCTGGAT	1068	Db
325	eGluAsnLysIleG	315	Оу
1067	ATTAATAAAGCCCTAAATAAAAAAATGGGTTTGGAGGATACTTTAGAACAATTGAATGCA	1008	Db
314	ProSerLysAlaLeuLysGluLysValSerThrAspThrLysAsp	300	Qy
1007	7	948	Db
299	AsnArgValPheIleProThrLysLysPhePheAsnLysGluIleArgGlu	283	Qy
947	GACTTTGAAATTAAGTTTAATCCCGAGGCTGGTGCCAACTGCCTTGTC	900	Db
282	ProTrpTyrLysLysTrpTyrMetLysLeuLysAsnPheMetVal	268	Qy
999	AAATTAAAACTTATTCCTAAAGGTGCTGAGAATTCCAAAGGTTAT	855	Db
267	ArgPheSerLeuMetValValGlnArgLeuLeuAlaThrValAlaGlyTyrValAspThr	248	Qy
854	ATGCCAGAGGCAAAGAAGCGATTGAAAACACAATTAGCAGAGTATCACAAATTGGCTAG	795	Db
247	LysAspTyrMetAspThrGlnIl	231	Qy
794	TTAACCAAGGACCTGGAAGCTGAACAACAGAAGTTGTGGAATGAGGAGTTAAAA	741	Db
230	LeuAspIleGlyThrGluHis	211	Qy
740	AGAAATGAATTGCAGCAGACTATTAATAAA	711	Db
210	Thr ThrGlyLeuPheGlyTrpGlyIleLysArgAlaLeuLysGlnIleIleArgSerAsn	191	Оу
710	TCAGTTGCAGACATTGAGCGAATAAATCATGAA	678	Db
190	${\tt TyrLysThrTyrThrAsnValAspGluPheGlyAlaSerPhePheAsnLysLeuSerPhe}$	171	Qy
677	0	633	Db
170	AlaSerArgTyrLeuTy	151	Qy
632	AAATTAAATGGTCTCAATGAGGAAATTGCTAGAGTAGAACTAGAATGTGAAACAATAAAA	573	Db
150	gAsp	139	Qy
572	GTTCAAAAGTATCAGGCATACATGAGCAATTTGGAGTCTCATTCAGCCATTCTTGACCAG	513	Db
138	heTrpMetArgPheArgArgGlyLysAsnHisSerTyrPheHisAspLeu	121	Qy
512	GAAAAAGAACCGAATCGTCTAGAGTCGTTGAGAAAACTGAAGGCTTCCTTACAAGGAGAT	453	Db
120	GluSerAspAlaAsnProAlaAsnSerThrGluLys	109	Qy

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                                                                                                                                              complex protein 1 (ORC1) from the yeast Kluyveromyces lactis. The sequence was isolated using primers based on amino acid sequence conserved between the ORC1 and SIR3 proteins from Saccharomyces cerevisiae. The amplified fragment was then used for low stringency CNA hybridisation to obtain the K. lactis ORC1 gene sequence. The ORC proteins (AAW22224-35) can be used to screen chemical libraries to identify lead compounds useful in treatment and diagnosis of undesired
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Origin of replication complex; ORC; yeast; Kluyveromyces lactis; chromatography; peptide sequencing; primer; amplification; PCR; opolymerase chain reaction; open reading frame; cell growth; cance infection; inflammation; hypersensitivity; ds.
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                                                                                                                                                                                                                                                                                   This is the nucleotide sequence encoding the origin of replication complex protein 1 (ORC1) from the yeast Kluyveromyces lactis. The
                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acids encoding origin of replication complex proteins - used for screening for lead cpds. for therapy or diagnosis of disease associated with undesirable cell growth
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Stillman BW;
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                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                              Claim 4; Column 59-62; 53pp; English.
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16-DEC-1993;
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Li J, McNally
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid encoding origin of replication complex (ORC) protein - useful to screen for lead pharmaceuticals capable of disrupting ORC protein function, and inhibiting cell growth
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                                                              The HA gene encodes a spike-like protein which is embedded in the membrane via a hydrophobic anchor sequence. A portion of this anchor sequence may be replaced with a ribosomal frame shift signal sequence (RFS), in such a way that ribosomes translating the new HA sequence will usually terminate before the hydrophobic sequence is encountered, leading to the prodn. of a secreted form of the HA. It has been found that the primary sequence of the FRS can be radically altered as long as the the secondary and tertiary structures
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RESULT 33
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                      Claim 1;
                                                 New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -
                                                                                                                                                                                                                                                                                                                    Homo
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                                                                                                              WPI; 2001-639362/73.
P-PSDB; ABG10231.
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23-AUG-2000; 2000US-0649167.
                                                                                                                                                                                                                                                                   11-OCT-2001
                                                                                                                                                                                                                                                                                                                                           Human; chromosome mapping; gene mapping; gene therapy; forensic;
food supplement; medical imaging; diagnostic; genetic disorder;
                                                                                                                                                                                                                                                                                                                                                                                 DNA encoding novel human diagnostic protein #10222
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The invention relates to isolated polynucleotide (I)

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Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO
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CCAAAAGCAATGGCAACAAAAGACAAAATTGACAAATGGGATCTAATTAAACCAAAGAGC
                                                  SerLysAlaLeuLysGluLysValSerAsnAspAlaLysAspLeuPheGluAsnLys---
                                                                                                                                                                         PheGluAsnLysIleGlyGlnGlyThrValAspPhePheAsnLysGluIleArgAspPro
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polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy technique to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating

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The invention relates to isolated polynucleotide (I) and

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                                                                                                                                                                    New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity
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23-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                      chromosome mapping; gene mapping; gene therapy; forensic;
upplement; medical imaging; diagnostic; genetic disorder;
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                                                                                                                                                                                                                                                                                    HYSEQ INC
                                                                                                                                                                                                                                                             Liu C,
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2000US-0649167.
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Best Local Similarity:
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{\tt GlyThrValAspPheIleAsnAsnGluIleArgAspProSerLysAlaLeuIleArgLys}
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                                                                                                                                                              CCAAAAGCAACGGCAGCAAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAAC
                                                                                                                                                                                   SerLysAlaLeuLysGluLysValSerAsnAspAlaLysAspLeuPheGluAsnLys---
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                                                                AlaLeuIleArgLysValSerThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGln
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37.21%
24.25%
4.64%
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                                   ----TGGGAGAAAATTTTCACAACC------
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Conservative:
Mismatches:
Indels:
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                                               polynucleotifes are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in including disorders, forensics, gene mapping, identification of mutations in including disorders or genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human continuous disorders of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                               polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1558
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Sequence 2277
                                    at ftp.wipo.int/pub/published_pct_sequences.
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23-AUG-2000;
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food supplement; medical imaging; diagnostic; genetic (
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                                                                                                                IleAsnLysGluIleArgAspProSerLysAlaLeuIleArgLysValSerThrGlu 451
                                                                                                                                                                                      ValTyrThrGluAlaAspAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPhe 432
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                                                                               ACAAACAACCCCATCAAAAAGTGGGCGAAGGACATGAACAGACACTTCTCAAAAGAA 1614
                                                                                                                                                                                                                                                                                                                                                              TTCTGCACAGCAAAAGAAACTACCATCAGAGTGAAC-----AGGCAACCTACAAAA
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                                                                                                                                                      ATCTACAATGAACTCCAGCAAATTTACAAGAAAAAA---
                                                                                                                                                                                                                                                                                                                            AlaLeuIleArgLysValSerThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGln 392
                                                                                                                                                                                                                                                                                                                                                                                               -----IleGlyGlnGlyThrValAspPheIleAsnAsnGluIleArgAspProSerLys 372
                standard;
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SerPhePheAsnLysLeuSerPheThrThrGlyLeuPheGlyTrpGlyIleLysArgAla
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ACTTTCTTCCCAGAATTGGAAAAAAACTACTTTAAAGTTCATATGGAACCAAAAAAGAGCC
LeuLysGlnIleIleArgSerAsnLeu--ProLeuAspIleGlyThrGluHisSerValS

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Best
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                                                                                                                    Pred. No.:
                                                                                                                                  Alignment Scores:
                                               Query Match:
                                                                                   Percent Similarity:
                                                                                                  Score:
                                                                                                                                                                                                            The invention relates to isolated polynucleotide (I) and CD polypeptide (II) sequences. (I) is useful as hybridisation probes, CC polyperase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The CD polynucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques (CI), (II) is useful for generating antibodies against it, detecting or CC (II), (II) is useful for generating antibodies against it, detecting or CC quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical CC imaging of sites expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in CC diagnostics, forensics, gene mapping, identification of mutations CC and to produce other types of data and products dependent on DNA and CC and to produce other types of data and products dependent on DNA and CC and to genences. AAS64197-AAS94564 represent novel human CC specification, but was obtained in electronic format directly from WIPO case for the product of the printed of the invention.
                                                                   Local Similarity:
                                                                                                                                                                    Sequence 2277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID No 10110; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess biodiversity
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23-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; chromosome mapping; gene mapping; gene therapy; forensic;
food supplement; medical imaging; diagnostic; genetic disorder; ss.
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2000US-0649167.
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Matches:
Conservative:
Mismatches:
Indels:
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                                                                                                                            Human: chromosome mapping; gene mapping; gene therapy; forensic,
food supplement; medical imaging; diagnostic; genetic disorder;
                                             WO200175067-A2
                                                                                                                                                                                              DNA encoding
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                                                                                                                                                                                                                                                                                                                               AAS74426 standard;
                                                                                        Homo sapiens
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                                                                                                                                                                                           novel human diagnostic protein #10230
                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      --ProSerLysAlaLeuLysGluLysValSerThrAspThrLysAspLeu 315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ------Val-AspThrPro-------
                                                                                                                                                                                                                                                                                                                               CDNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --TACTCATCTGACAAAGGGCTAATATCCAGA 1521
                                                                                                                                                   forensic;
                                                                                                                                                                                                                                                                                                                                                                                                                1614
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II) (II) is useful for generating annibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human of diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as Myridsation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for the polynucleotides are also used in diagnostics as expressed sequence tags.
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23-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  at ftp.wipo.int/pub/published_pct_sequences.
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                                           262
                                                                                                                                                                                                                                                                                                      203
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                                                                                                                                                                                                                  222
                                                                                                                                                                                                                                                                                                                                                                     SerPhePheAsnLysLeuSerPheThrThrGlyLeuPheGlyTrpGlyIleLysArgAla 202
CCGCATATCTACAACTATCTGATCTTTGACAAACCTCACAAAAACAAGCAATGGGGGAAAG 1149
                                        LeuLysGlnIleIleArgSerAsnLeu--ProLeuAspIleGlyThrGluHisSerValS
                                                                                                                                                                                                                                                                                                                                                 ACTTTCTTCCCAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAAAAAAGAGCC
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                                                                                                                          euProLysPheAlaLysArgPheSerLeuMetValValGlnArgLeuLeuAlaThrValA
                                                                                                                                                                     CCTGACTTCGAACTATACTACAAGGCTACAGTAAC-----CAAAACAGCCTGGTACTGG
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2277 73 39 107 82 15

1089 268

262 1035 981 222 밁 δ В Q В Ş 멍 δÃ 밁 õ В Ş В δ 밁 Ş 밁 Qy 밁 ş 밁 γ В Qy 밁 δ

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RESULT 38
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                               WPI; 2001-639362/73
P-PSDB; ABG10412:
                                                                                                                                           31-MAR-2000; 2000US-0540217
23-AUG-2000; 2000US-0649167
                                                                                                                                                                                                                                                                                                                   Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
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New isolated polynucleotide and
                                                                              Drmanac RT, Liu C,
                                                                                                             (HYSE-) HYSEQ INC.
                                                                                                                                                                                            30-MAR-2001; 2001WO-US08631
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                                                                                                                                                                                                                                                         WO200175067-A2
                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                    DNA encoding novel human diagnostic protein #10403.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAS74599 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1558 ACAAACAACCCCATCAAAAAGTGGGCGAAGGACATGAACAGACACTTCTCAAAAGAA 1614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1270 GTTAGAGCTAAAAACCATAAAAACCCTAGAAGAAAAACTAGGCAATACCATTCAGGAC---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            433 IleAsnLysGluIleArgAspProSerLysAlaLeuIleArgLysValSerThrGlu 451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   373 AlaLeuIleArgLysValSerThrGlyAlaGluAspLeuPheGluAsnLysIleGlyGln 392
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 316 PheGluAsnLysIleGlyGlnGlyThrValAspPhePheAsnLysGluIleArgAspPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          413 ValTyrThrGluAlaAspAspLeuPheGluAsnLysIleGlyGlnGlyThrValAspPhe 432
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(II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO as for which with ished not seconds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy technique to restore normal activity of (II) or to treat disease states involving
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Sequence 2277 BP; 878 A; 483 C; 473 G; 443 T; 0 other;

ftp.wipo.int/pub/published_pct_sequences.

DB:	Query Match:	Best Local Similarity:	Percent Similarity:	Score:	Pred. No.:	Alignment Scores:
23		24.25%				
Gaps:	Indels:	Mismatches:	Conservative:	Matches:	Length:	
15	82	107	39	73	2277	

US-09-807-459-2 (1-458) x AAS74599 (1-2277)

335	316 PheGluAsnLysIleGlyGlnGlyThrValAspPhePheAsnLysGluIleArgAspPro 335		Qγ
1326	1270 GTTAGAGCTAAAACCATAAAAACCCTAGAAGAAAAACTAGGCAATACCATTCAGGAC 132		DЪ
315	00ProSerLysAlaLeuLysGluLysValSerThrAspThrLysAspLeu		Qy
1269	10 CTGGATCCCTTCCTTACACCCTTATACAAAAATTAATTCAAGATGGATTAAAGACTTACAT 1269	1210	Ф
299	282 ValAsnArgValPheIleProThrLysLysPhePheAsnLysGluIleArgGlu		Qy
1209	1150 GATTCCCTATTTAATAATGGTGCTGGGAAAATGGCTAACCATATGTAGAAAGCTGAAA 1209		В
281	69TrpTrpTyrLysLysTrpTyrMetLysLeuLysAsnPheMet		Qy
1149	1090 CCGCATATCTACAACTATCTGATCTTTGACAAAACCTCACAAAAACAAGCAATGGGGAAAG 1149		Db
268	262 laGlyTyrVal-AspThrPro		Qy
1089	36 TACCAAAACAGAGATATAGACCAATGGAACAGAACA		Дb
262	242 euProLysPheAlaLysArgPheSerLeuMetValValGlnArgLeuLeuAlaThrValA 262		Qy
1035	982 CCTGACTTCGAACTATACTACAAGGCTACAGTAACCAAAACAGCCTGGTACTGG 1035		Дb
242	22 erArgLeuGlnHisIleThrSerSerTyrLysAspTyrMetAspThrGlnIleProAlaL		Qy
981	928 CTCATCGCCAAGTCAATCCTGAGCCAAAAGAACAAAGCCAGAAGCATCACGCTA 981		ДЬ
222	203 LeuLysGlnIleIleArgSerAsnLeuProLeuAspIleGlyThrGluHisSerValS		ρy
927	868 ACTITCTTCCCAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAAAAAAAGAGCC 927		Вþ
202	83 SerPhePheAsnLySLeuSerPheThrThrGlyLeuPheGlyTrpGlyIleLysArgAla		Qy

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RESULT 39
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ID AAS79
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                                                                                                                                                       New isolated polynucleotide and encoded polypeptides, useful diagnostics, forensics, gene mapping, identification of mutat responsible for genetic disorders or other traits and to asse
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Note: The sequence data for this patent did not appear in the printed appear for the invention, but was obtained in electronic format directly from WIPO
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CC Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO or at the context of the context directly from WIPO at the context of the context directly from WIPO at the cont
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